**Hardware Bulletpoints**

**Discussion:**

* Robot could be improved in both design and IRL model. Design can hold all the components however, the camera servo creates an imbalance of mass, which would result in a slight turn when driving forward
* Some parts have been makeshift secured with blu-tack. We would fix this in later designs with new pieces which can be secured down with screws ideally.
* Some parts have been secured/created with unnecessary hot glue (slider on back) which mean the part would have difficulty detaching after the project.
* Maybe changing the slider into a free movable wheel/ball which would reduce the friction of half the mass of the robot dragging (due to us only having 2 wheels)
* Length and width of the car could be reduced to give us a greater chance of avoiding obstacles
* We use ABS plastic for our 3D printed design, this is a tough and non-mendable plastic which can withstand higher forces than other plastics. Might consider other types

**Results:**

* Robot is functional prototype but not perfect for the final product.
* We got camera-mount & servo fixed to design
* Created stand for raspberry pi/contains battery
* Wheel brackets created and fixed onto design
* Overall working design which can use all functions as intended.

**References: (might be useful)**

* <https://www.instructables.com/id/SAE-BAJA-CHASSIS/> (shows hardware methods)
* <https://www.tomsguide.com/us/3d-printing-materials,news-24392.html> (3d print materials)